The Committee on Stalin Prizes (of the Council of Ministers USSE) in the fields of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetskaya Kultura, Moscow, Ro. 22-40, 20 Feb - 3 Apr 1954)

Home

Title of Work

Moskinsted by

Gnedenko, B. V.

"Mikhail Vasil'yevich Ostrogradskiy" (popular scientific work) Institute of Mathematics, Academy of Sciences Ukrainian SSR

80: W-30604, 7 July 1954

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		*Gnedenko, B. V., and Kolmogorov, A. M. Limit distributions of the state of the sta
		Inted and annotated by K. L. Chung. With an Appendix
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		This is a translation of the authors Devolute in [11]
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BOOK

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TO DESCRIPTION OF THE PROPERTY OF THE PROPERTY

Author: GNEDENNO, B.

Call No.: AF667270

Full Title: COURSE IN THE THEORY OF PROBABILITY, 2nd ed., rev. Transliterated Title: Kurs teorii verovatnostav. 12d 2-00 18n

Kurs teorii veroyatnostey. 1zd. 2-oe, isprav. i dop.

PUBLISHING DATA

Originating Agency: None

Publishing House: State Publishing House of Technical and Theoretical

Literature

Date: 1954

No. pp: 441

No. of copies: 15,000

Editorial Staff

Contributors: A. N. Kolmogorov and A. Yu. Khinchin

PURPOSE AND EVALUATION: Approved by the Main Administration of Universities and Economic and Juridical Colleges of the Ministry of Higher Education as a textbook for universities. Unlike the Russian textbooks of A. A. Markov, S. Bernstlyn and others, published before 1950, as well as the American textbook of W. Feller An Introduction to Probability Theory and its Applications, Gnedenno's textbook is the only one written on Kolmogorov's foundation of the theory of probability.

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Kurs teorii veroyatnostey. Izd. 2-oe, isprav. i dop.

Table of Magnitudes of Function

$$(x) = \frac{1}{\sqrt{2\pi}} \int_{0}^{x} e^{-\frac{z^2}{2}} dz$$

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Table of Magnitudes of Function

$$P_{k}(a) = \frac{a^{k}e^{-a}}{k!}$$
 391-392

Table of Magnitudes of Function

$$\sum_{m=0}^{k} \frac{a^m e^{-a}}{m!}$$
 393-394

4/6

Kurs teorii veroyatnostey. Izd. 2-oe, isprav. i dop.

Table of Magnitudes of Function

Magnitudes of Function
$$P(x) = \frac{1}{2^{\frac{k-2}{2}} \int \left(\frac{\kappa}{2}\right)} x^{k-1} e^{-\frac{z^2}{2}}$$

Table of Magnitude of Function

399-400

$$S(x) = \frac{\left(\frac{n}{2}\right)}{\sqrt{(n-1)\kappa} \left(\frac{n-1}{2}\right)} \int_{-\infty}^{x} \left(1 + \frac{z^2}{n-1}\right) - \frac{n}{2} dz$$

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Table of Magnitudes of Function

Page

$$K(x) = \sum_{k=-\infty}^{\infty} (1)^{k} e^{-2k^2x^2}$$

401-402

No. of References: Total 106, Russian 88 (1901-1952) Facilities: Names of many Russian scientists are mentioned.

6/6

GNEDENKO, B.V., GIKHMAN, I.I.

Development of the theory of probabilities in the Ukraine. Pratsi.

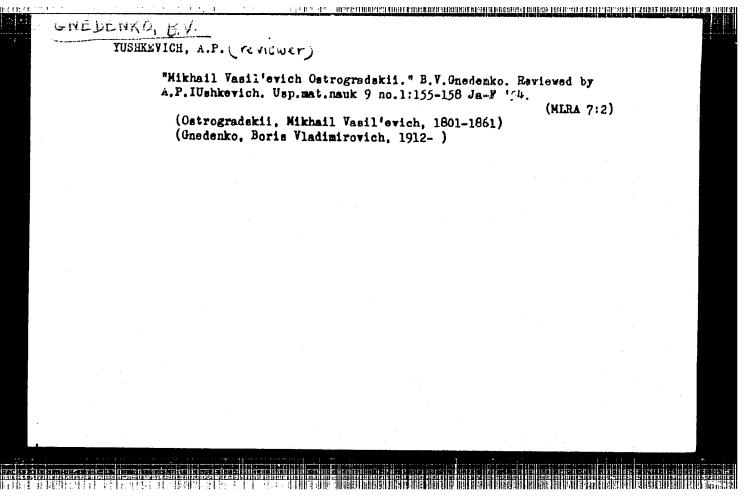
Kyiv.un.2:59-94 '54. (MLRA 10:1)

(Ukraine--Prebabilities--Study and teaching)

CHEDENKO, B. V.

Limit theorems for sums of independent elements and Markov chains.

(Probabilities) (MLRA 9:1)

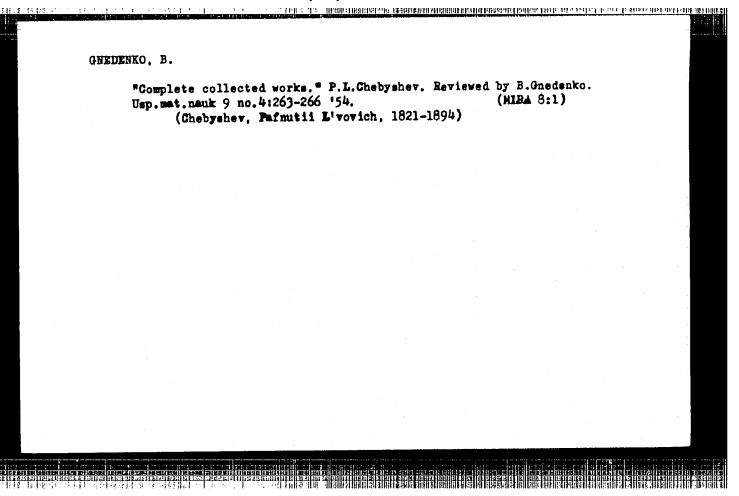


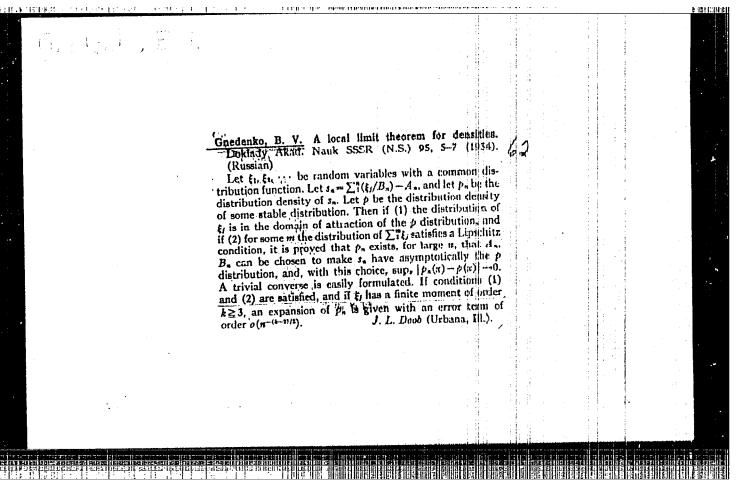
GNEDENKO, B.V.; KALUZHNIN, L.A.

Mathematical activities in the German Democratic Republic.

Usp.mat.nauk 9 no.4:133-154 *54. (MIRA 8:1)

(Germany, Bast--Mathematics) (Bibliography--Mathematics)





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GNEDENKO, B V

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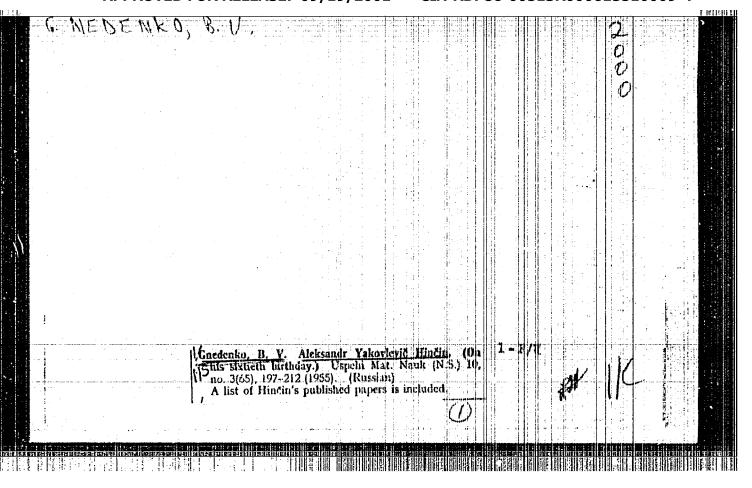
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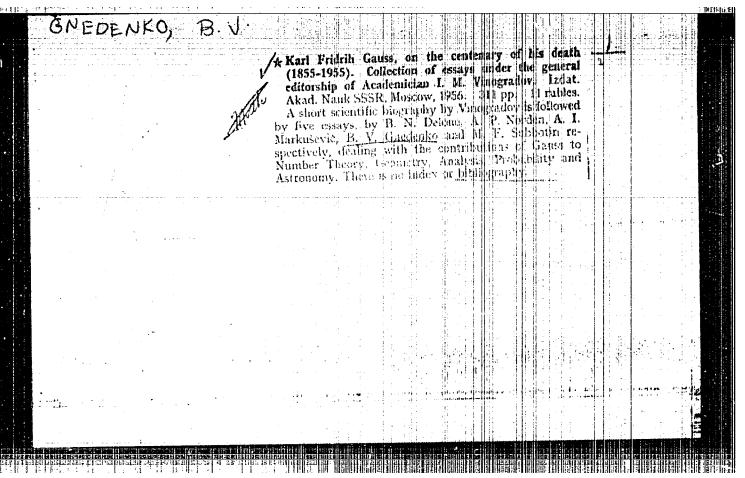
B. V. GNEDENKO AND E. L. RVACHEVA. TRANSLATED BY H. P. EDMUNDSON.

T-45. SANTA MONICA, CALIF., RAND CORP., 1955.

TRANSLATED FROM THE "REPORTS OF THE ACADEMY OF SCIENCES USSR, 1952, V. 82, NO. 4, PP. 513-516."

CIA CONTROL NO. V 6926.





ONEDENKO, B.V.; POGREBYSSKIY, I.B.

Development of mathematics in the Ukraine. Ist.-mat.issl.no.9:
403-426 '56.
(Ukraine--Mathematics)

(Ukraine--Mathematics)

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SUBJECT

USSR/MATHEMATICS/History of mathematics CARD 1/1 PG - 635

AUTHOR GNEDENKO B.V., GICHMAN I.I.
TITLE The development of the theo

The development of the theory of probability in the Ucraine.

PERIODICAL Istoriko-mat. Issledovanija 9, 477-536 (1956)

reviewed 3/1957

This report reaches from the beginning, beginning with A.F.Pawlovskij (1821), M.E. Wascenko-Zacharcenko (1863) until the present time. The more the development advances the more difficult it is to represent it in its limitation to the Ucraine. Thus partially the progresses of probability theory in the whole Russia are considered. To the period of the beginning there belong, beside of the above mentioned scientists, also W.P.Ermarkov and M.A.Tichoman-drizkij. The "classical period" begins with the papers of P.L.Cebysev and A.A.Markov. Then a less well-known paper due to I.W.Slesinskij is reviewed in which in connection with the error theory already the cosine transformation of a straight density of distribution is used. After a short acknowledgement of the work of A.M.Liapunov this part of the report especially treats the papers of S.N.Bernstejn. Finally the author reviews on papers of E.E.Sluzkij. The last part describes the development since 1930. The literature restricts to Ucrainian papers only.

GNEDENKO, B.V.; POGREBYSSKIY, I.B.

Bygenii IAkovlevich Remez; on the 60th anniversary of his birth.

Ukr.mat.zhur. 8 no.2:218-222 '56. (MIRA 9:8)

(Remer, Bygenii IAkovlevich, 1896-)

(Bibliography--Mathematics)

POGREBIS'KII, I.B., kandidat fiziko-matematichnikh nauk; GNYEDENKO, B.V., akademik, golovnyy redaktor; LISENKO, F.K., redaktor

[Modern calculating machines] Suchasni obchysliuval'ni mashyny.

Kyiv, 1957. 37 p. (Tovarystvo dlis poshyrennia politychnykh i naukovykh znan' Ukrsins'koi RSR. Ser.4, no.2) (MIRA 10:8)

1. Akademiya mauk URSR (for Gnyedenko)

(Calculating machines)

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PHASE I BOOK EXPLOITATION CZECH/2556

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Conference on Information Theory, Statistical Decision Functions, Random Processes. 1st, Liblice, 1956.

Transactions. Prague, Czechoslovak Academy of Sciences, 1957. 354 p. 1,000 copies printed.

Sponsoring Agency: Československá Akademie Věd. Sekce Technická.

Reviewers: Vaclav Dupač and Miloslav Jiřina; Scientific Ed.: Jaroslav Kožešnik, Corresponding Member, Czechoslovak Academy f Sciences; Resp. Ed.: Ludek Bohm; Tech. Ed.: František Končický.

PURPOSE: This book is intended for specialists interested in information theory and related subjects.

COVERAGE The book contains papers read at the First Prague Conference on Information Theory, Statistical Decision Functions, and Random Processes, held on November 28 - 30, 1956. The Con-

Card 1/5

Conference on Information Theory (Cont.)

CZECH/2556

ference was sponsored by the Czechoslovak Academy of Sciences and organized by the Institute of Radio Engineering and Eleptronics. The papers discuss various mathematical approaches to the problems of communications: information theory, probabilistic properties of communication, stochastic properties of communication, entropy, transformations of stochastic properties, statistical decision functions, randomized functional analysis, etc. Participants from China, Germany, Poland, Sweden, the United States, and the Soviet Union were present at the Conference. Of the 21 articles in the book, 14 are in English, 4 in French, 2 in German, and 1 in Russian.

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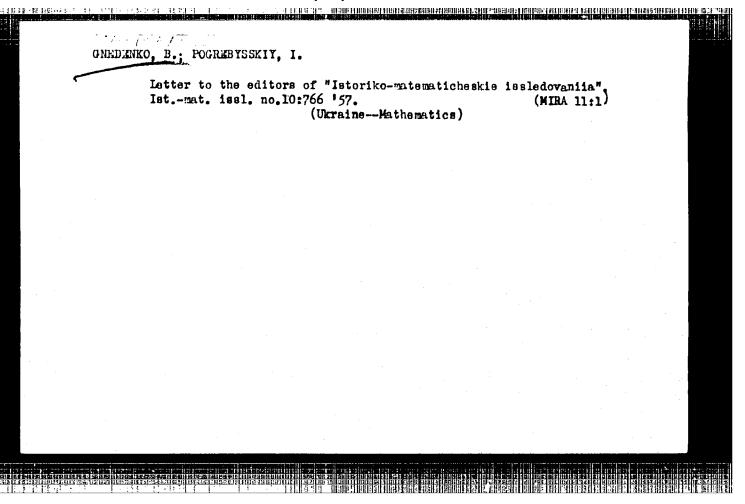
PALIADIN, O.V., red.; SEMENCHKO, M.P., akademik, red.; SHCHEREAN'. O.N., akademik, red.; CURLYMKO. B.W. [Hniedenko, B.V.], akademik, red.; LOELIMARSKIY, Yu.K. [Delimers'kyi, IU.K.], akademik, red.; KAVETSKIY.
R.Ye. [Kavets'kyi, R.IE.], akademik, red.; KHRKNOV, K.K. [Khrienov, K.K.], akademik, red.; KOROID, O.S., kand.ekon.nauk, red.; GUDZEMKO.
P.P. [Hudzenko, P.P.], kand.ist.nauk, red.; SHIKAN, V.L., red.
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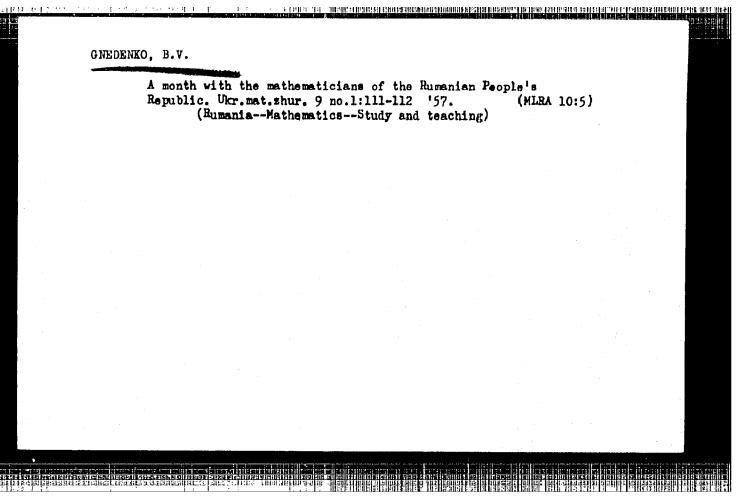
[Development of science in the Ukraine during the past 40 years]
Rozvytok nauky v Ukrains'kii RSR sa 40 rokiv. Kyiv, 1957. 529 p.

(NIRA 11:3)

1. Akademiya nauk URSR, Kiyev (for Semenenko, Shcherben', Gnedenko, Delimarskiy, Kavetskiy, Khrenov)

(Ukraine---Science)





Guedenke B.V.

AUTHOR:

GNEDENKO, B.V.

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TITLE:

First Conference of the Ukrainian Mathematicians (Pervoye

soveshchaniye matematikov Ukrainy)

PERIODICAL: Uspekhi Matematicheskikh Nauk, 1957, Vol. 12, Nr. 6, pp. 215-220 (USSR)

ABSTRACT:

The conference of May 16-18, 1957 had only a restricted scientific program (7 synoptical lectures). The conference mainly was devoted to organizing questions, e.g. foundation of an Ucrainian mathematical society, introduction of municipal mathematical seminaries, mathematical periodical for pupils. In the background of all these questions there was the effort to advance and organize the mathematical life everywhere (pupils. students, academicians in the managements, dotsents of universities). As an example of a scientific institute working modelly for the interest of the universality, the Institute of Advanced

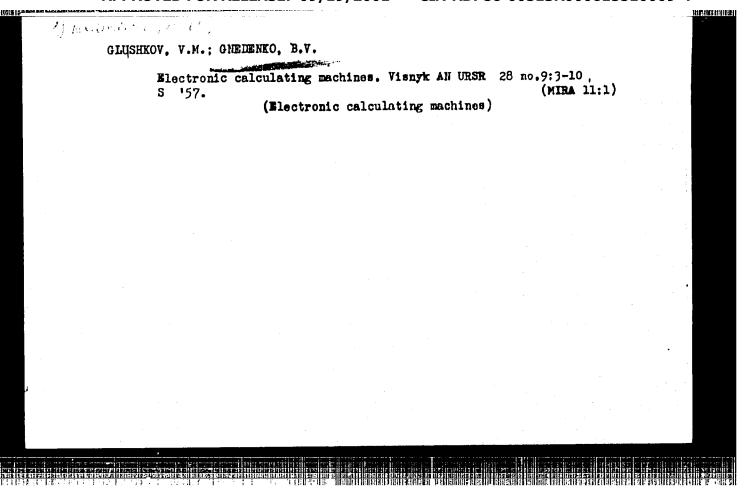
Study, Princeton, U.S.A. is mentioned. Among the resolutions passed by the conference the following one seems to be interesting: foundation of a museum for computing machines.

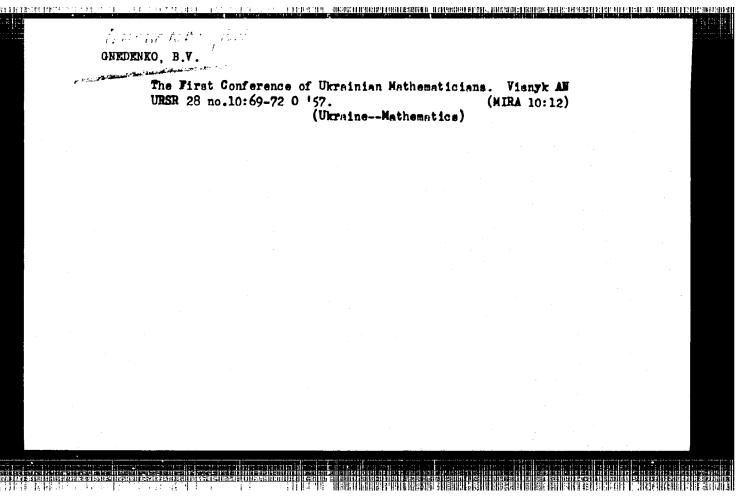
Participators: ca. 300 persons.

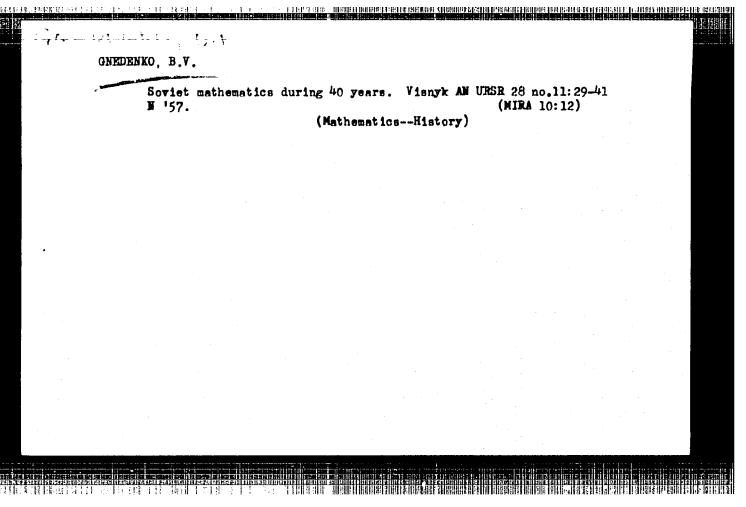
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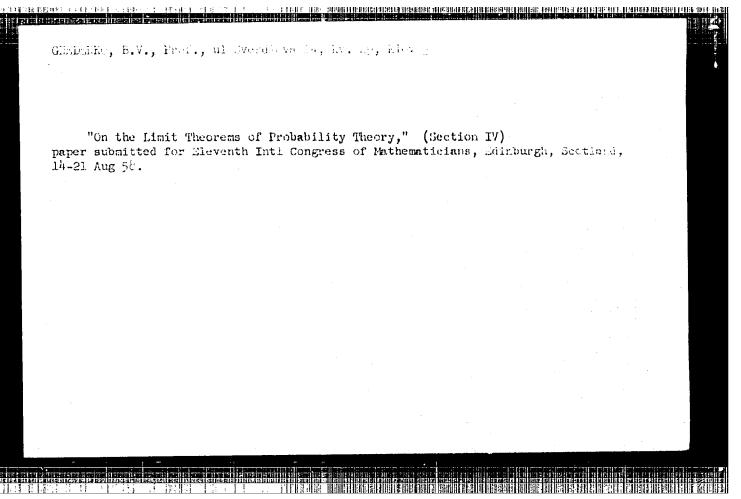
GNEDENKO, B.P. [Hniedenko, B.V.], akademik; GAVRILYUK, V.T. [Havryliuk, V.T.].

International connections of the Institute of Mathematics of the Academy of Sciences of the Ukrainian S.S.R. Visnyk AN URSR 29 no.3: 66-67 Mr 158.

(MIRA 11:5)

1. AN URSR (for Gnedenko).

(Academy of Sciences of the Ukrainian SSR)



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OSTROGRADSKIY, Mikhail Vasil'yevich; SMIRNOV, V.I., akademik, red.;

ONEDENKO, B.V.; MARON, I.A., dotsent; ANTROPOVA, V.I., dotsent;

POGREBYSSKIY, I.B., dotsent; POLYAKHOV, N.N., prof.; REMEZ, Ye.Ya.,

prof.; SMIRNOV, V.I., akademik; FIKHTENGOL'TS, G.M., prof.;

TRAVIN, N.V., red.izd-va; PEVZNER, P.S., tekhn.red.

[Selected works] Izbrannye trudy. Red. V.I. Smirnova. Stat'ia B.V. Gnedenko i I.A. Marona. Primechaniia V.I. Antropovoi i dr. Izd-vo Akad.mauk SSSR, 1958. 583 p. (MIRA 11:12)

1. Deystvitel myy chlem AN Ukrainsk v SSR (for Gnedenko). (Calculus) (Mathematical physics) (Mechanics)

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PHASE I BOOK EXPLOITATION

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- Istoriko -matematicheskiye issledovaniya, vyp. 11 (Research in Mathematical History, Nr 11) Moscow, Fizmatgiz, 1958. 792 p. 3,000 copies printed.
- Eds. (Title page): Rybkin, G.F. and Yushkevich, A.P., Ed. (Inside book): Konoplyankin, A.A.; Tech. Ed.: Murashova, N. Ya.
- PURPOSE: This book is intended for mathematicians and others interested in the history of mathematics, and may serve as the basis for a suitable university text on the history of mathematics, thereby filling the most serious gap in Soviet mathematical literature.
- COVERAGE: This book contains reports made by members of the section on the history of mathematics at the Third All-Union Mathematical Congress which discussed problems of the history of mathematics and various articles on the significance of the history of mathematics

Card 1/8

Research in Mathematical History (Cont.)

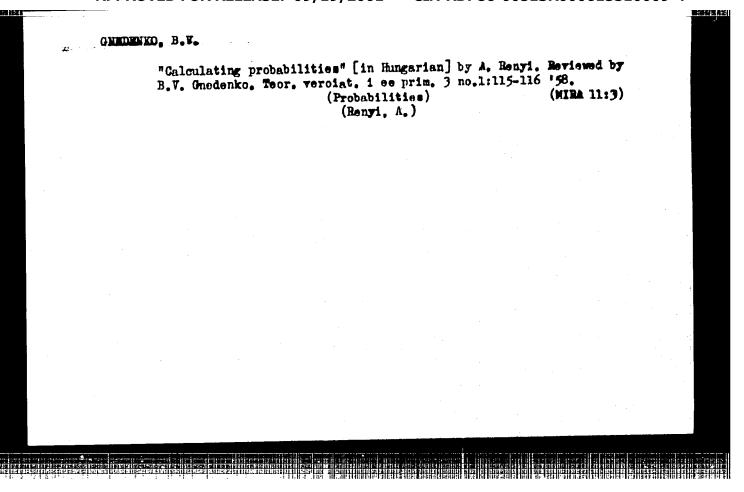
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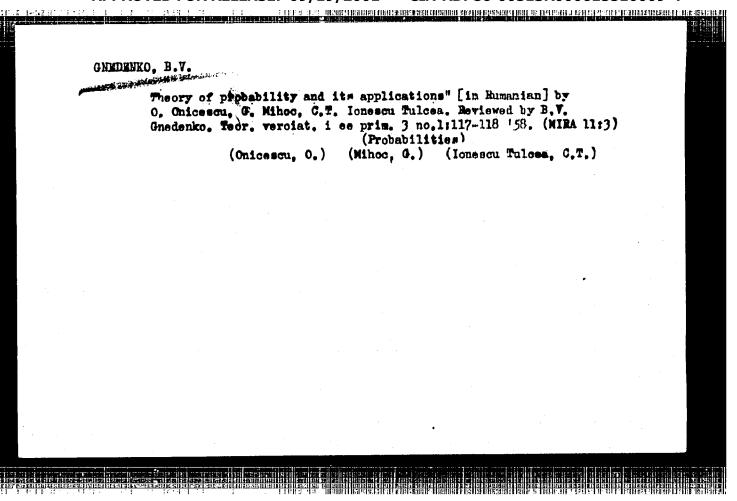
for mathematics itself and for the other sciences. There are also four articles on the history of mathematics in Czechoslovakia and Rumania, an article on the investigation of the algebraic roots of differential calculus in connection with a study of the mathematical writings of K. Marx, and an article on the work done on negative numbers by the Arabian mathematician, Abu-l-Wafa. A series of articles on various texts and documents connected with the history of mathematics, including a translation of the treatise De Configuratione Qualitatum by N. Oresme and two articles concerning it, concludes the book.

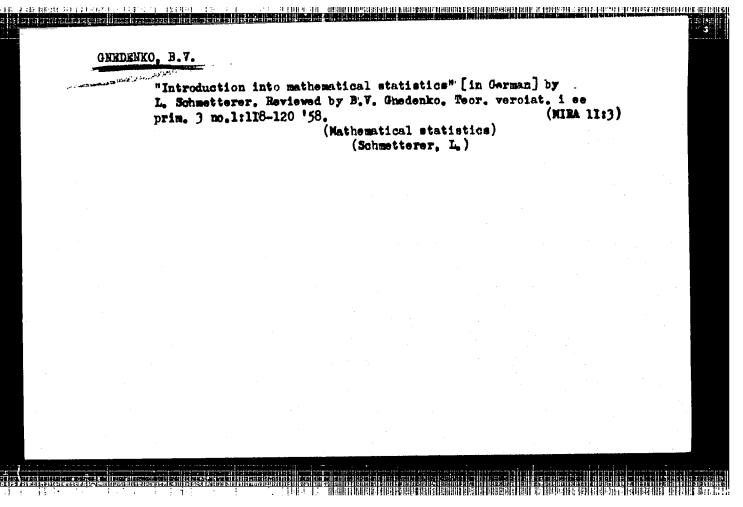
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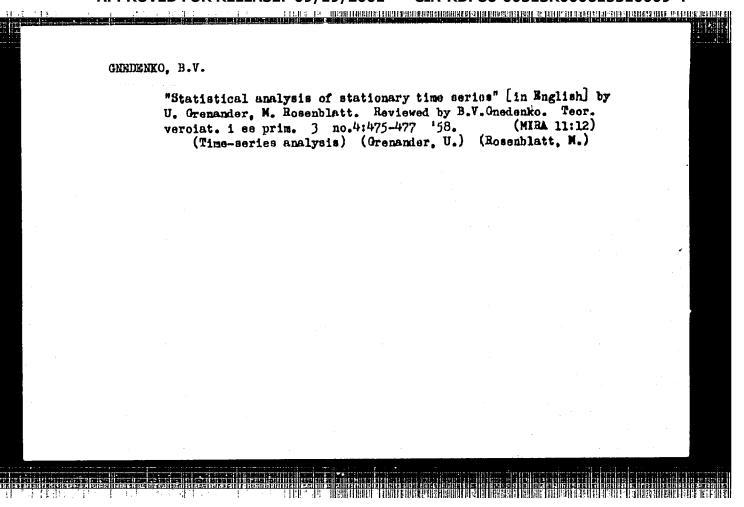
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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000615510009-4"









21-58-5-1/28 Gnedenko, B.V., Member of the AS UkrSSR AUTHOR: On a Problem of Mass Service (Ob odnoy zadache massovogo ob-TITLE: sluzhivaniya) Dopovidi Akademii nauk Ukrains'koi RSR, 1958, Nr 5, pp 477-PERIODICAL: 479 (USSR) This article is the answer to a question raised by engineers ABSTRACT: in the gas and electric power industries. The problem in question consists in the following: there is a great number of power consumers; the intensity of consumption by each consumer at any instant of time is a random quantity; what is the total consumption of gas or electric power at any particular instant? Under some very general assumptions, the solution of this problem can be found by applying the n-dimensional theorem of Lyapunov Ref 1. The author proves that the total consumption at arbitrary instants t1, t2, ..., ts for any integer s is a random vector whose distribution is close to normal. For a particular case when s = 1, the expression obtained agrees with that derived by Engineer B.S. Meshel: in an empirical way, by handling extensive statistical data as to consumption of electric power. The author remarks that his result is applicable only in cases Card 1/2

On a Problem of Mass Service

21-58-5-1/28

when there is a considerable number of consumers.

There is 1 Soviet reference.

ASSOCIATION: Institut matematiki AN UkrSSR (Institute of Mathematics AS

UkrSSR)

SUBMITTED:

January 18, 1958

NOTE:

Russian title and Russian names of individuals and institu-

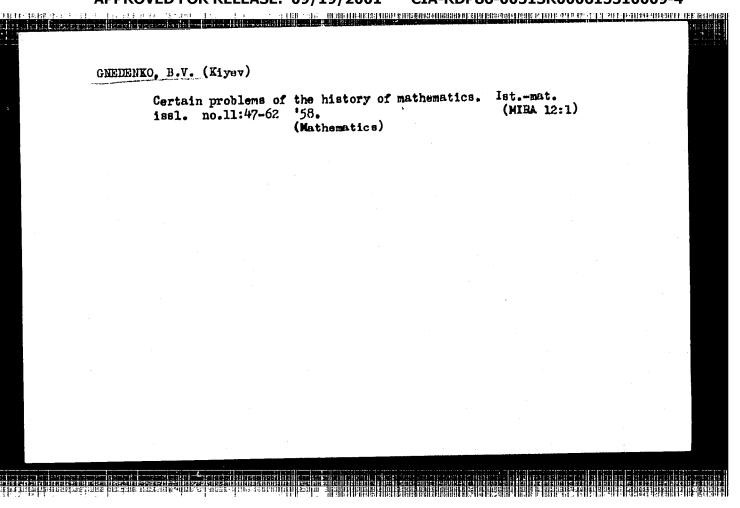
tions appearing in this article have been used in the trans-

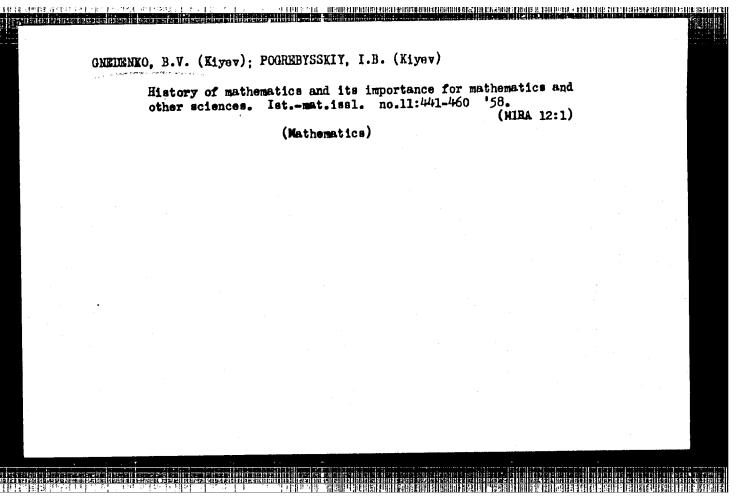
literation.

1. Hydroelectric power systems--Statistical analysis

Card 2/2

CIA-RDP86-00513R000615510009-4" APPROVED FOR RELEASE: 09/19/2001





, I THE STEEL THROUGH THE HERE WHEN THE STEEL ST :1-1-12/15 GNEDENKO, 3. AUTHOR: Republican Conference on the Questions of the Statistical TITLE: Methods of Analysis and of Control of Industrial Plants. (Respublikanskaya konferentsiya po voprosam statisticheskikh metodov analiza i kontrolya proizvodstva) Ukrainskiy Matematicheskiy Zhurnal, 1958, Vol. 10, Nr. 1, pp. 103 PERIODICAL: (UUSR) This is a report on the conference which took place on ABSTRACT: 14 - 15 June 1957. There were more than 100 participators: chief engineers of most important industrial plants and collaborators of scientific institutes. 8 lectures were given. Conclusion: 1.) Foundation of an Ukrainian Seminar on statistical methods in the industry. 2.) Accelerated publication of text-books on the statistical methods for current control and supervision of fabrication. Library of Congress AVAILABLE: 1. Statistical analysis-Reports-Industry Card 1/1

AUTHORS: Anedenko, B.V., and Pogrebysskiy, I.B. SOV/42-13-5-13/15

TITLE: Ten Years of "Historical-Mathematical Investigations" (Desyat' let

"Istoriko-matematicheskikh issledovaniy")

PERIODICAL: Uspekhi matematicheskikh nauk, 1958, Vol 13, Nr 5,pp 229+234 (USSR)

ABSTRACT: This is a review on the merits of the periodical "Istoriko-matematicheskiye issledovaniya" (edition 3000-4000 copies).

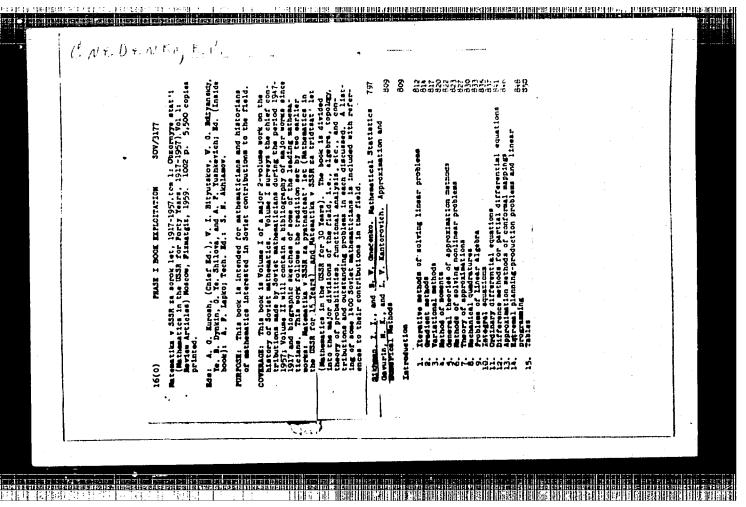
Aims of the periodical: 1) Communications on scarcely known questions of the (especially Russian) history of mathematics, 2) examination and improvement of the older interpretations in mathematics. The authors regret that the papers published in the periodical are somewhat one-sided; mostly the Russian mathematicians are treated while the western mathematics as well as the mathematics of Japan, of Rome and the Middle Ages

etc. is scarcely mentioned.

Card 1/1

"On one Problem of Mass Servicing,"

paper to be subnitted for the Second Pregue Conference on Information
Theory, Statistical Decision Functions, and Kandom Processes, Liblice
(near Pregue) CSK, 1-6 June 1959.



OSTROGRADSKIY, Mikhail Vasil'yevich [deceased]; SHTOKALO, I.Z., akademik, otv. red.; BOGOLYUBOV, N.N., akademik, otv. red. toma; GHEDENKO, B.V., akademik, red.; ISHLINSKIY, A.Ya., akademik, red.; REMEZ, Ye.Ya., FERT., GAVIN, G.N., akademik, red.; SOKOLOV, Yu.D., red.; SMIRNOV, V.I., akademik, red.; YUSHKEVICH, A.P., prof., red.; POGREBYSSKIY, I.B., dotsent, red.; SHTELIK, V.G., red.ind-va; RAKHLINA, N.P., takhn.red.

[Collected works in three volumes] Polnoe sobranie trudov v trekh tomakh. Kiev, Isd-vo Akad.nauk USSR. Vol.1. 1959. 310 p.
(MIRA 12:8)

1. AN USSR (for Shtokalo, Gnedenko, Ishlinskiy, Savin). 2. Chlen-korrespondent AN USSR (for Remex, Sokolov).

(Science)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000615510009-4"

L. Euler's it dies on the productivity theory, the theory of the processing of chaervation results, demography, and instrume. Ist. mat.sbl. 1:71-76 '50. (MI.A 14:2) (Probabilities) (Demography) (Insurance, Social)	•
(Insurance, Social)	•
	•

Development of the theory of probability in the works of 0, ... Liapunov.

Ist.-mat. zbir. 1:133-139 '59.

(Probabilities)

C 17+55-59-2-4/25 8(3)

Gnedenko, B. V. Academician of the Academy of Sciences, UkrSSR, AUTHORS:

Meshel', B. S., Engineer (Kiyev)

On the Method of Determining the Design Loads of Industrial TITLE:

Plants (O metodike opredeleniya raschetnykh nagruzok

promyshlennykh predpriyatiy)

PERIODICAL: Elektrichestvo, 1959, Nr 2, pp 13-16 (USSR)

In the last years the design loads of industrial networks are ABSTRACT:

commonly calculated by means of methods of the probability

theory. A provisional analysis of three methods of calculating

the electrical loads of industrial networks is given.

1) The works of G. M. Kayalov (Refs 3, 4). He makes use of methods of the probability theory and says that the total load is to be considered as a random process and calls it

a stationary random process. He tries to comprehend by formulae

a great number of factors effecting the load.

2) M. K. Kharchev (Ref 2) refers to the necessity to subdivide the electric-energy consumers into groups of equal performance.

He introduces two important factors: factor of exploitation of the installed capacity during the maximum loaded shift and

maximum factor. It is shown that the ideas of Kharchev are Card 1/2

SOV/105-59-2-4/25

On the Method of Determining the Design Loads of Industrial Plants

very dubious and do not correspond with the reality.

3) The one of the authors - Meshel' - tries to pay no regard to the influence of the single factors or factor groups on the load but to consider only their total influence by methods of mathematical statistics. What is deemed precious in this method is the circumstance that for the calculation two parameters only must be regarded - the mean load P and the dispersion of. Finally it is stated that the method of Kharchev has been developed not before the last years and its application has therefore not been studied sufficiently. No experience too is available of the application of the method of Kayalov nor of the statistical method. For this reason it is not possible for the present to choose one of the mentioned methods. There are 7 Soviet references.

SUBMITTED:

August 9, 1958

Card 2/2

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000615510009-4 THE REPORT OF THE STREET OF TH

307/21-59-4-1/27 16(1)Gnedenko, B.V., Academician AS Ukr SSB AUTHOR: On a Generalization of Erlang's Formulas TITLE: Dopovidi Akademii nauk Ukrains'koi RSR, 1959, Nr 4, PERIODICAL: pp 347-350 (USSR) Erlang's formulas were formulated long ago / Ref 1 / and had been intended for use in the study of work ABSTRACT: conditions of devices of automatic telephone stations. Since then, the field of their application has been considerably widened, especially by works of R.

Fortet / Ref 2 / B.A. Sevast yanov / Ref 3 / and L. Takacs / Ref 4 /. This article extends the applicability of Erlang's formulas to a case when devices (in the case the talenbare lange) may see vices (in this case the telephone lines) may get out of order and require a certain time for repairs. A case is examined when the demands are served by "n" devices and the devices are served by "r" number of operators. The inflow of demands and the flow of im-

pairments of devices are assumed to be simple Card 1/3

On a Generalization of Erlang's Formulas

307/21-59-4-1/27

Poisson flows. The time of attending the devices and serving the demands as assumed to be exponential. The final result is given by formulas (3), where Pk is probability of impairment, Pk(t) is probability that at a time "t", a "k" number of devices is at work $\mathfrak{T}_k(t)$ is the probability of there being a "k"

number of devices out of order at a time "t", is parameter. Other designations are standard mathematical. In the conclusion the article considers two special cases: 1) when the devices can not get out of order, 2) when the impaired devices are brought in order right away. The results are shown by formulas (1) and (4). There are 4 references, 1 of which is

Card 2/3

On a Generalization of Erlang's Forumulas

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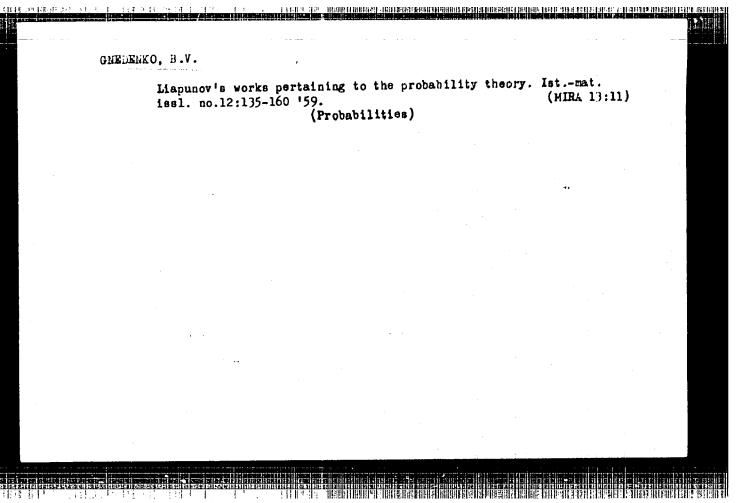
Soviet, 1 English, 1 French and 1 Hungarian.

ASSOCIATION: Institut matematiki AN UkrSSR (Imstitute of Mathematics of the AS UkrSSR)

SUBMITTED:

December 23, 1958, by the author.

Card 3/3



16(1),16(2) AUTHOR:

Gnedenko, B. V.

507/52-4-2-13/13

13

TITLE:

T.W. Anderson, Introduction to Multivariate Statistical Analysis,

TO THE THE PROPERTY OF THE PRO

New York, Wiley, 1958

PERIODICAL: Teoriya veroyatnostey i yeye primeneniya, 1959, Vol 4, Nr 2,

pp 247-248 (USSR)

ABSTRACT:

This is a favourable criticism of the above mentioned took with a short summary of the contents of the single chapters. The book is recommended for translation into the Russian Language.

Card 1/1

CIA-RDP86-00513R000615510009-4" **APPROVED FOR RELEASE: 09/19/2001**

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000615510009-4 ETT D. J. J. THE SHOTT HERRE HANDER OF THURST BEET IN ROSSON FOR THIS REPORT AND THE BEAT RESIDENCE IN THE SERVENCE OF THE COMPANY.

16(1)

AUTHOR:

Gnedenko, B.V.

507/52-4-3-10/10

TITLE:

Review of M. Fish, Theory of Probability and Mathematical

Statistics, Warszawa, 1958, 530p. 2. Edition

PERIODICAL: Teoriya veroyatnostey i yeye primeneniye, 1959, Vol 4, Nr 3,

ABSTRACT:

This is a favourable review of the above book. The book

consists of 17 chapters, three of which are new: Markov chains, Stochastic processes, Theory of Series. The author mentions

that at the same time the book is published in German language

in Berlin.

Card 1/1

USCOMM-DC-61,657

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000615510009-4 The state of the s

s/044/63/000/001/051/053 A060/A000

AUTHOR:

Gnedenko, B. V.

TITLE:

Some remarks on two papers by D. I. Barrer

PERIODICAL:

Referativnyy zhurnal, Matematika, no. 1, 1963, 44, abstract 1V201

(Bul. Inst. politehn. Iași", 1959, v. 5, no. 1 - 2, 111 - 118 summaries in Italian, Rumanian)

The author discusses certain new formulations of problems of the TEXT: theory mass servicing considered earlier by Barrer (1958, 7034). In the simplest situation for the theory of mass servicing there are: n service devices, the simplest request flow, exponential distribution of service time, - the new element is the introduction of the following type of constraints: the time during which a request may find itself in a queue, or the total dwell time in the system bounded by a constant number T. The problem is also raised of studying certain other service systems analogous to those considered by Barrer. In conclusion it is noted that the results set forth are only; the beginning of series of further investigations". Yu, I. Maksimov

[Abstracter's note: Complete translation] Card 1/1

	Mathematics Ap 159.	edenko, B.V.], akademik in natural sciences. Nauka i zhvttia			9 no.4:17-19 (MIRA 12:7)		
	1. AN USSR.	(Mathematics)	(Science)				
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						·	

GNEDENKO, B.V. [Hniedenko, B.V.], akademik

We carried out our dreams. Nauka i shyttia 9 no.10:5
0 '59.

1. AN USSR.

(Lunar probes)

GNEDENKO, B.V. [Hniedenko, B.V.], akademik; SHKARARA, K.O., kand.tekhn.

nauk

Cybernetics. Hauka i zhyttia 9 no.12:9-11 D '59.(MIRA 13:4)

1. AN USSR (for Gnedenko).

(Cybernetics)

18(1)

AU THOR:

Unedenko, E.V.

307/41-11-2-1/17

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TITLE:

Investigations on Probability Theory and Lathematical Statistics

in the System of the AS Ukr SSR

PERIODICAL: Ukrainskiy matematicheskiy zhurnal, 1959, Vol 11, Nr 2, pp 123-136

(USSR)

ABSTRACT:

On the occasion of the 25 years existence of the Mathematical Institute of the Academy of Sciences Ukr SSR the author gives a survey on the investigations on probability theory and statistics carried out by this institute and other institutions. The author reviews in brief the most essential results of S.N.Bernshteyn, N.I.Akhiyezer, N.H.Bogolyubov, B.V.Gnadenko, B.S.Meshel',

V.S.Korolyuk, Ye.L.Rvacheva, I.M.Kovalenko, L.P. Nizhnik, Ye.L. Yushchenko, M.A. Krasnoseliskiy, S.G. Kreyn, M.G. Kreyn, N.M. Krylov, D.G. Meyzler, C.S. Parasyuk, V.S. Likhalevich, H.I.Pol'skiy, G.F.Selyavin, G.N.Sakovich, and Ye.Ye.Slutskiy. The author mentions I.M. Lifshits, Corresponding Member, W. T.

Afanas'yev, A.M. Lyapunov, T.F. Osipovskiy, A. Ya. Khinchin,

Card 1/2

化铁路辐射设计 计可引用 建拉马油托工厂

CIA-RDP86-00513R000615510009-4" APPROVED FOR RELEASE: 09/19/2001

Investigations on Probability Theory and Nathenatical 507/41-11-2-1/17 Statistics in the System of the AS Ukr 33R

A.H.Kolmogorov, P.L.Chebyshov. Yu.V.Frobborov, V.V.Petrov, Yu.A.Rozanov, Yu.V.Linnik, V.P.Skitovich, R.L.Bobrushin, H.A. Sapogov, E.V.Shirokorad, S.H.Brodi, M.G.Parinich, M.I.Kovalenko, V.H.Yaroshenko, N.V.Yarovitskiy, O.V.Basmanov, V.A.Mikhaylov,

and M. V. Ftukh.

There are 83 Soviet references.

SUBMITTED: March 16, 1959

Card 2/2

"On some aspects of the development of mass operations." report to be submitted at the Annual Meeting of the German Society for Applied Mathematics and Mechanics, Freiberg/Saxony, 20-23 Apr 1960.									
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GHEDERKO, B.V.; KOROLYUK, V.S.; and SKOROKHOD, A.V.

"On Asymptotic Distributions in the Theory of Prokability."

[Kiev State University imeni T.G.Shevchenko]

report to be presented 27 June 1960 at the 4th Symposium on Mathematics Statistics and Probability - Berkeley, California, 20 Jun- 30 Jul 1960.

PHASE I BOOK EXPLOITATION SOV/4981

Soveshchaniye po teorii veroyatnostey i matematicheskoy statistike, Yerevan, 1958

Trudy Vsesoyusnogo soveshchaniya po teori eroyatnostey i matematicheskoy statistike, Yerevan, 19-25 sentyabrya. 58 g. (All-Union Conference on the Theory of Probability and Nathematical Statistics. Held in Yerevan 19-25 September, 1958. Transactions) Yerevan, Izd-vo AN ASSR, 1960. 291 p. Errata slip inserted. 2,500 copies printed.

Sponsoring Agency: Akademiya nauk Armyanskoy SSR.

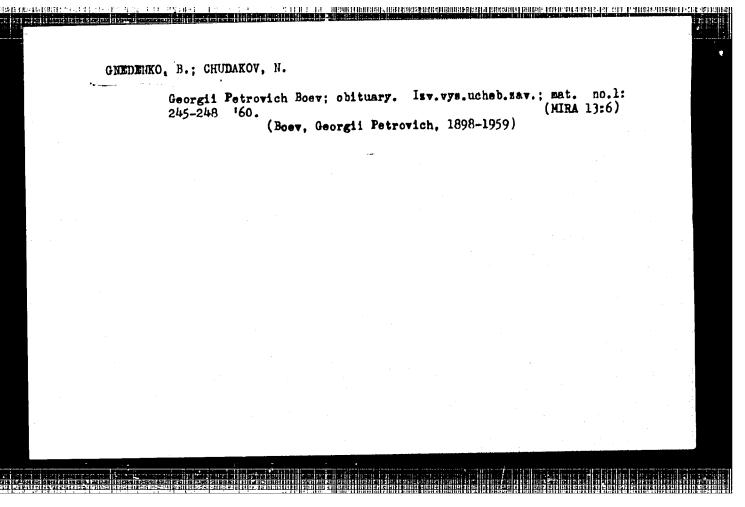
Editorial Staff: G.A. Ambartsumyan, B.V. Gnedenko, Ye.B. Dynkin, Yu.V. Linnik and S. Kh. Tumanyan; Ed. of Publishing House: A.G. Slkuni; Tech. Ed.: M.A. Kaplanyan.

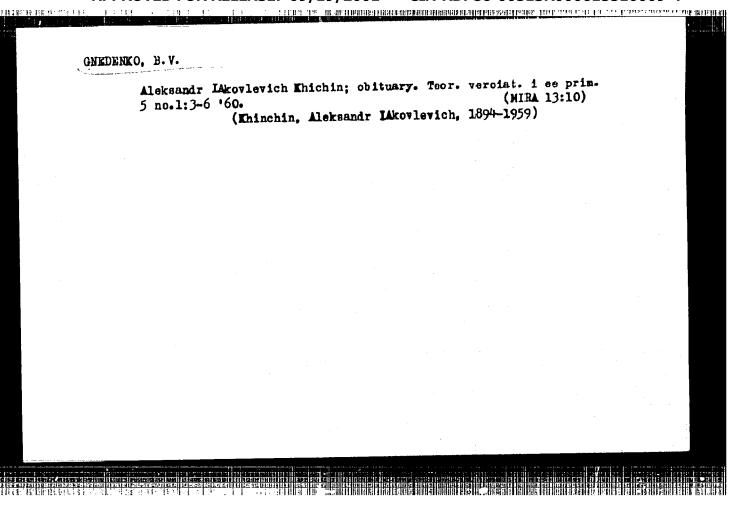
PURPOSE: The book is intended for mathematicians.

COVERAGE: The book contains 41 articles submitted to the Conference and dealing with the theory of probability and mathematical statistics. Some of the articles are the papers read at the Conference and edited for publication, while others outline the theses of papers which appeared or are scheduled to appear, wholly or in

Gard 1/8

-Card 2/8





S/052/60/005/004/003/007 G 111/ C 333

्य समाज अर्थः भारताहरम् समामका समाज अध्यक्षका अधारका अधारक

AUTHORS: Gnedenko, B. V., Kolmogorov, A. N., Prokhorov, Yu. V., Sarmanov, O. V.

TITLE: On the Work of N. V. Smirnov in Mathematical Statistics (On the Occasion of his 60-th Birthday)

PERIODICAL: Teoriya veroyatnostey i yeye primeneniye, 1960, Vol. 5, No. 4, pp. 436-440

TEXT: On October 17, 1960 Nikolay Vasil'yevich Smirnov, Corresponding Member of the Academy of Sciences USSR, Professor, had his 60-th birthday.

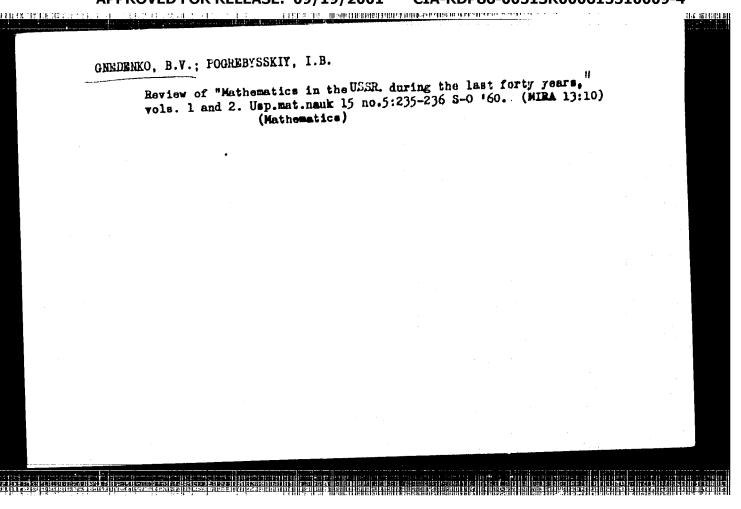
The first group of his papers is devoted to non-parametric problems. He considers: the distribution of the criterion ω^2 of Mises, the deviations from the empiric curves, "criterion of Smirnov".

The second group deals with the properties of the terms of the variation series. For papers of this group N. V. Smirnov obtained the Stalin prize. The third group is devoted to probability theory.

The authors call special attention to the difficulty of the considered problems and the elegance of the solutions. Card 1/2

GNEDENKO, B.V.; KOLMOGOROV, A.N. Aleksandr IAkovlevich Khinchin; obituary. Usp. mat. nauk 15 no.4:97-110 J1-Ag 60. (MIRA 13:9)

(Thinchin, Aleksandr Iakovlevich, 1894-1959)



GNEDETKO, B.V., akademik; KRASNOV, I.G.; BOYKO, F.K. (g.Pavlodar);

MESHEL!, B.S., inzh.

Draft of directives regarding the calculation of electric power loads in industrial enterprises. Prom. energ. 15 no.6:41-45

Je '60.

(MIRA 13:7)

1. AN USSR (for Gnedenko). 2. Proyektnyy institut Minstroya RSFSR (for Krasnov).

(Electric engineering)

GNEDENKO, Boris Vladimirovich; KHINCHIN, Aleksandr Yakovlevich;
SHIROKOVA, S.A., red.; KRYUCHKOVA, V.N., tekhn. red.

[Elementary introduction into the probability theory] Elementarnoe vvedenie v teoriiu verolatnostel. Iza.5. Moskva, Gos.
izd-vo fisiko-matem. lit-ry, 1961. 143 p., (MIRA 15:4)

(Probabilities)

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PHASE I BOOK EXPLOITATION

sov/5618

- Gnedenko, Boris Vladimirovich, Vladimir Semenovich Korolyuk, and Yekaterina Logvinovna Yushchenko
- Elementy programmirovaniya (Programming Elements) Moscow, Fizmatgiz, 1961. 348 p. 25,000 copies printed.
- Ed.: L. A. Solov'yeva; Tech. Ed.: N. Ya. Murashova.
- PURPOSE: This textbook has been approved by the Ministry of Higher and Special Secondary Education of the RSFSR for schools of higher education. It may also be useful to members of scientific research institutes concerned with computer programming.
- COVERAGE: The book contains directions on the programming of automatic digital computers. It reflects investigations made in the field of automation of programming, solutions of logical problems by automatic digital computers, and the operational method proposed by A. A. Lyapunov, Professor, whose lectures at the Moscow University suggested to the authors the basis for this textbook. No personalities are mentioned. There are 29 references, all Soviet (including 3 translations).

CNEDENKO, Boris Vladimirovich; SHIROKOVA, S.A., red.; YERMAKOVA, Ye.A., tekhn. red.

[Course in the theory of relativity] Kurs teorii veroiatnostei. Izd.3., perer. Moskva, Gos. izd-vo fiziko-matem. (MIRA 15:2)

[it-ry, 1961. 406 p. (MIRA 15:2)

(Relativity (Physics))

S/044/62/000/006/095/127 B166/B112

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AUTHOR:

Gnedenko, B. V.

TITLE:

Some questions of cybernetics and statistics

PERIODICAL:

Referativnyy zhurnal. Matematika, no. 6, 1962, 43, abstract 6V208 (Sb. "Kibernetiku na sluzhbu kommunizmu. v. I.", M. - L.,

Gosenergoizdat, 1961, 55-71)

TEXT: In the introduction the author notes the penetration of mathematical methods into various branches of learning. In language within the reach of engineers the central problems of those branches of cybernetics with which the author has himself been direct dealing are set out. The logical path which led to the construction of a medical diagnostic machine and experience gained in its operation are described. The section entitled "Questions of the organization of production and the theory of mass service" discusses the calculation of automation lines and bunker capacity. The section entitled "Statistical questions of the reliability of control systems" deals with corrector codes and the design of reliable circuits from unreliable elements. Further, the most topical problems of linear Card 1/2

Some questions of cybernetics ...

S/044/62/C00/006/095/127 B166/B112

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programing are enumerated, and questions of the theory of games are set out, with particular reference to coalition games. In conclusion, Markovian and steady-state processes are defined; it is noted that these closely approach all really observable processes. [Abstracter's note: Complete translation.]

Card 2/2

89683

16.6101 (also 1031)

s/144/61/000/001/003/004 E031/E435

AUTHOR:

Gnedenko, B.V., Academician AS UkrSSR, Doctor of Technical Sciences, Professor

TITLE:

The Theoretical Probability Foundations of the Statistical Method of Calculating the Electrical Loading in Industrial Plants

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Elektromekhanika,

This paper was presented at a meeting of the TsYeNTOEP Commission on Load, Kiyev, October 1959.

In many cases, projected installations adopt purely empirical approaches leading to a considerable divergence between calculated results and the loadings actually observed. through misapplication of the theoretical expressions or through This arises either the choice of inappropriate values for the parameters. solution of the problems should be sought through a deeper understanding of the physical reality and the construction of a mathematical theory of calculation, supported by practical Verification and an indication of the methods of calculation which

The Theoretical Probability ...

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would not present insuperable computing difficulties for the projected installation. In the past thirty years, attempts have been made to construct mathematical theories using the concepts and methods of the theory of probability. the first in the field (Ref. 5) and both G.M.Kayalov and B.S.Meshel' have been working systematically since. Suppose that there are various units that consume the power $P_k(t)$ at the time t, so that the total power P(t) is the sum of the individual power consumptions. The quantities $P_k(t)$ have to be regarded as random functions and P(t) as a random function of a special kind. Kayalov proposed studying the graph of the total load as a stationary (in time) random process and applying correlation theory; Meshel' considers the problem of consumption as stationary but gaussian in character with independent increments in any time J.Palasti and L.Takacs (Ref.7) use complicated mathematical apparatus on the same approach. nineteenth century, A.M.Lyapunov proved a theorem to the effect that under very wide conditions a random quantity which is the sum of a large number of independent random quantities, each of which has only an insignificant effect on the sum, has a nearly normal

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The Theoretical Probability ...

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probability distribution. This theorem can be generalized to the case when the distribution P(t) has to be found at several moments of time. In practice, however, it is convenient to consider not the instantaneous power consumption, but the energy consumed in a time interval h. Meshel' (Ref.6) gives a fuller In going over to the energy distribution P(t,h) a certain amount of smoothing takes place. standard deviation o for the process P(t) over intervals of time h and H = hs where s is an integer, we find that $\sigma(H) = \sqrt{s} \sigma(h)$, but if we consider the standard deviation for Q(t,h) = P(t,h)/h, for the same time intervals, we have $\overline{\sigma}(H) = \overline{\sigma}(h) / \sqrt{s}$. The mean usable power and standard deviation may be calculated in a similar manner when the units absorbing the power are grouped. If the dependence of the usable power on different moments of time is important, then one of the methods which can be adopted is that of Kayalov (Ref.2) in which he considers the process of using energy to be a stationary Markov process. Use of the theoretical apparatus of probability theory solves all the problems arising in practical calculations of the

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The Theoretical Probability ...

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The state of the s

loading. Kayalov's approach does not take account of the fact that the loading is the sum of a large number of components. this is accepted, the loading can be considered as a normal stationary Markov process. There are 1 figure and 7 references; If 6 Soviet and 1 non-Soviet.

ASSOCIATION: Moskovskiy Gosudarstvennyy universitet

(Moscow State University)

SUBMITTED:

December 16, 1960

Card 4/4

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R000615510009-4"

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4.7100

Hoyedenky, Bave, Hlushkov, V.M. and Yushchenko, Kala

TITLE

Mathematical parameters of general-purpose digital computs

"Kyyıv"

SOURCE

Akademiya nauk Ukraying koy. RSR. Obchyslyuval nyy tsentra Zbirnyk prata z obchyslyuval noy: matamatyky i tekhnikya

v. 2, 1961, 5.7

TEXT. The mathematical parameters and the elementary operations of the digital computer "Kyyis" are described. The parameters were chosen as as to enable the solution of a wide range of mathematical and logical problems; and to render programming simple. The main types of problems to be solved by the computer; are: it linear, and non-linear systems of differential equations with variable coefficients; 2) partial differential equations, 3; problems (unolving the use of the Monte-Carte method; 4) problems of linear algebra; polynomials with several variables; etc. 5! processing of tabulated data; 6! tabulation of functions, 7; non-acithmetical problems; to particular those related to programming. A

Mothematical parameters of ess

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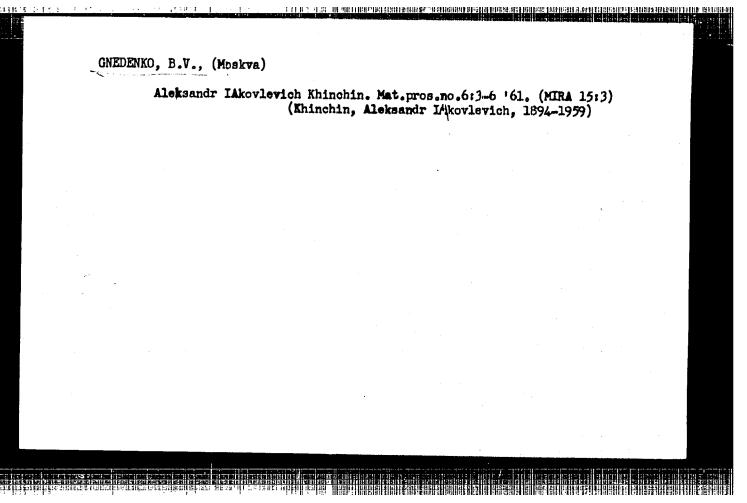
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fixed-point system is used which is much simpler (than a Clouting-point one) and favilitates operation of the computer. With regard to digits 10 12 decimal digits (approx. 40 binary) are used. The external immerg is of large capacity, the internal memory has 2048 cells, our of abich 512 belong to the backing storm. Three types of memories and incorporated in the machine. 1) Permanent for storing the most frequently used comstants and programs for computing elementary functions (sin), It was attach same abla-access for the subrany of subroutenes which are connected in tasof need; 3. fast-access for program testing siror correction, atc. Eleven digits are required for the coding of one adress, a three address system of instructions was adopted. The stementary operations of the computers are as follows: at Busin another coal operations, by auxiliary anothers. thical operation, it legical operations of control operations; et opera-*lone involving the external units ichange of rodes between the magnets. drum and the working memory, attaly to group operations, permitting ansoding the systical processes in a conven out form. The group operations constitute one of the perovier features of the computer "Kyyro", they are described a docall in a sale-square arrilled pp 26-20%. There are s South + bit of references, Card 2 😌

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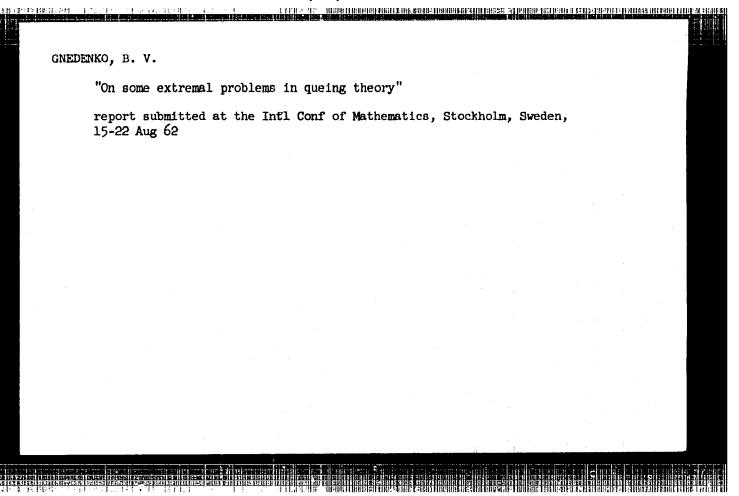
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